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Architecture 100

0

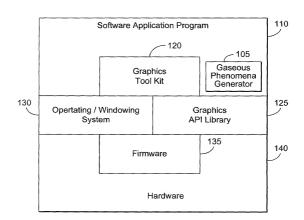


FIG. 1

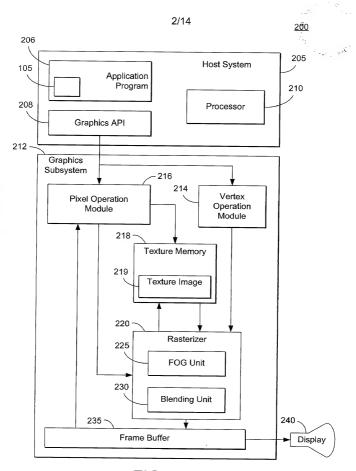
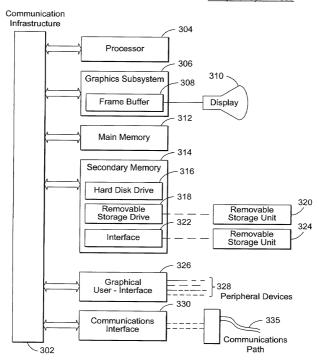


FIG. 2

Computer System 300



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FIG. 3

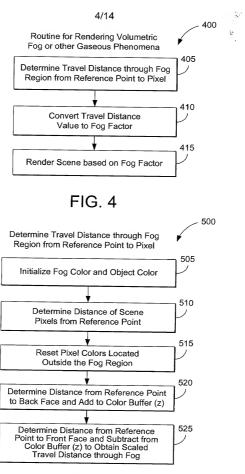


FIG. 5

<u>Docket No:</u> MS1-1031US <u>Inventor(s)</u>: Radomir Mech Title: Rendering Volumetric Fog and Other Gaseous Phenomena

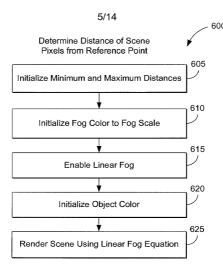


FIG. 6

Linear Fog Equation

Equation One (1)

Attenuation Factor(f) = Maximum Distance - Pixel Distance

Maximum Distance - Minimum Distance

Equation Two (2)

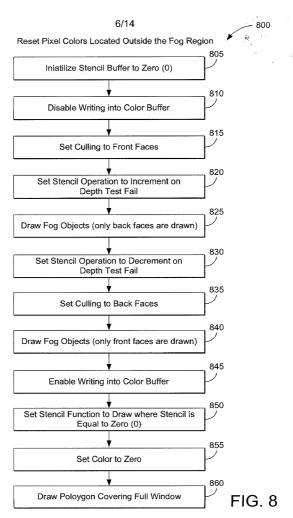
Color = f • Object Color + (1-f) • Fog Color

Equation Three (3)

Color = Pixel Distance - Minimum Distance
Maximum Distance - Minimum Distance

• Fog Scale

FIG. 7



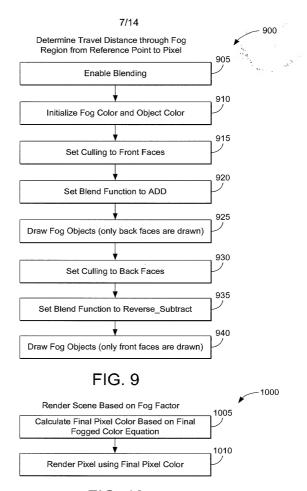


FIG. 10

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Final Fogged Color Equation

Unfogged pixel color • fog factor + fog color • (1 - fog factor)

FIG. 11

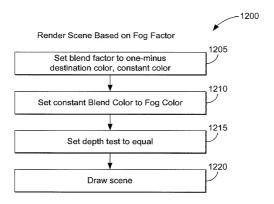


FIG. 12

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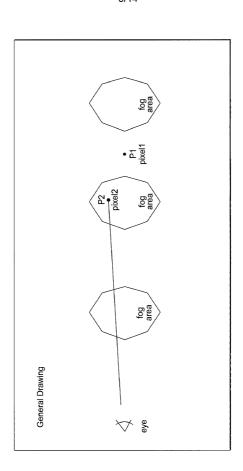


FIG. 13/

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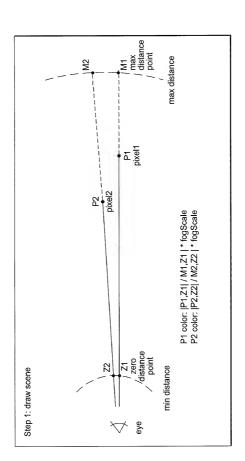


FIG. 13E

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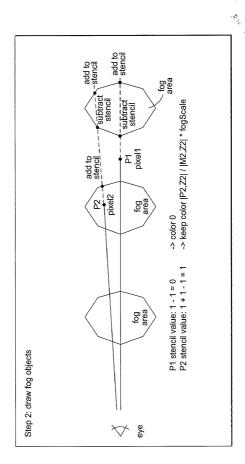


FIG. 130

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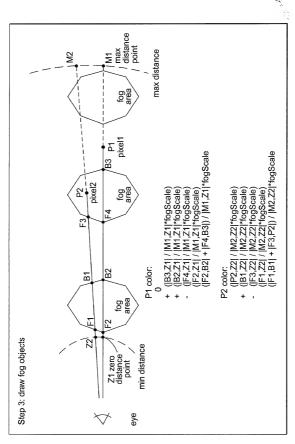
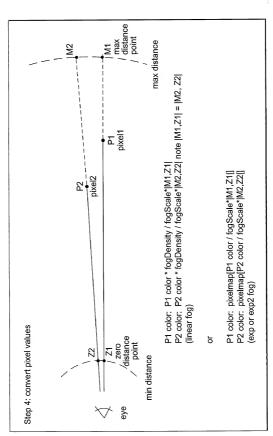


FIG. 13D



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FIG. 13E

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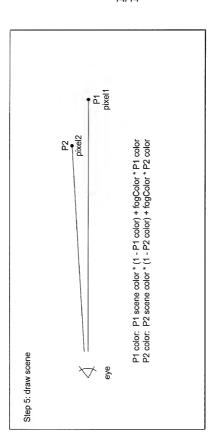


FIG. 13F